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10/053,765	01/18/2002	William Ho Chang		5434

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EXAMINER

RILEY, MARCUS T

ART UNIT	PAPER NUMBER
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2625

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PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/053,765	Applicant(s) CHANG ET AL.	
	Examiner MARCUS T. RILEY	Art Unit 2625	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 31 January 2011.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-59 is/are pending in the application.
- 4a) Of the above claim(s) 1-28 and 34-38 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 29-33 and 39-59 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 01/18/2002 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>03/24/2011</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Amendment

1. This office action is responsive to applicant's remarks received on January 27, 2011. **Claims 29-33 & 39-59** remain pending. **Claims 1-28 & 34-38** have been cancelled.

Response to Arguments

2. Applicant's arguments with respect to claim **claims 29-33 & 39-59** have been considered but are moot in view of the new ground(s) of rejection.

A: Examiner's Remarks

Applicant notes that the Anderson et al. (US 20020087622 A1, hereinafter, Anderson '622) is not available as prior art.

Examiner understands Applicant's concerns but respectfully disagrees. First of all, Anderson '622 is available as prior art. Applicant has mistakenly made reference to another Application (60/252,682) with a priority date of November 20, 2000. Examiner believes Applicant intended to reference Application (60/262,764) filed January 19, 2001 for priority because it is on record. The mistaken reference Application (60/252,682) filed November 20, 2000 is not of record for examination purposes. With this in mind, and in accordance with 102(e), a person shall be entitled to a patent unless the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for

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patent by another filed in the United States before the invention by the applicant for patent. Because, Anderson '622 was filed on December 29, 2000 and the priority date for the application (60/262764) was filed January 19, 2001, Anderson '622 qualifies as prior art.

Accordingly, it is submitted that the present application is not in condition for allowance.

Claim Rejections - 35 USC § 101

(The previous claim rejection is withdrawn in light of *the applicant's amendments.*)

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. **Claims 29-31, 33, 40-55 & 57-59** are rejected under 35 U.S.C. 103(a) as being unpatentable over Treyz et al (US 6,587,835 B1 hereinafter, Treyz '835) in combination with Van Ryzin et al. (US 6,255,961 B1 hereinafter, Van Ryzin '961) as applied to claim 29, and further in view of Tari et al. (US 6,542,491 B1 hereinafter, Tari '491).

Regarding claim 29; Treyz '835 discloses a method of transferring digital content from a mobile wireless information apparatus (Fig. 1, Hand Computing Device 12) to a wireless output device (Fig. 1 or 2, Components of Figs. 1 & 2 such as Computer 38 or Automobile Personal Computer 44) **by short range wireless communication** (i.e. Hand Computing Device 12 operates wirelessly to render and receive wireless digital content to the components of Figs. 1 & 2. Column 16, lines 23-36 and Column 12, line 56 thru Column 13 line 9);

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the mobile wireless information apparatus including

a wireless communication unit (Fig. 6, Communications Circuitry 136) for short range wireless communication with one or more output devices, the short range wireless communication not including the Internet in between the mobile wireless information apparatus and the wireless output device (Fig. 6, Communications circuitry and accessories 136 communicates wirelessly with the components of Figs. 1 & 2. Column 16, lines 37-55);

an interface (Fig. 6, Interface 134) for interacting with a user (i.e. The user may provide inputs using user input interface 134. Column 16, lines 37-55);

the method comprising:

downloading at the mobile wireless information apparatus (Fig. 2, Hand Computing Device 12) the digital content from a server (Fig. 2, Service Provider 46) over the Internet (Fig. 2, Communications Network 32) to the mobile wireless information apparatus (i.e. The components of FIGS. 1 and 2 may be interconnected using any suitable wired or wireless communications paths. Analog and digital transmissions may be involved. Communications paths may use the Internet. Column 12, lines 56-67),

the digital content includes video content (i.e. Video files may be downloaded to handheld computing device from a video kiosk. Column 32, lines 61-67)

opening a wireless communication channel at the wireless communication unit of the mobile wireless information apparatus (i.e. Hand Computing Device 12 operates wirelessly to render and receive wireless digital content to the components of Figs. 1 & 2. Fig. 13 is a schematic diagram showing how a handheld computing device may establish a wireless communications link with a merchant. Column 16, lines 23-36 and Column 12, line 56 thru Column 13 line 9 and Column 20, lines 57-67);

the wireless communication channel being a short range wireless communication that is compatible with one within IEEE802.11 wireless standard or being one compatible with

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BluetoothTM standard (Fig. 4 i.e. Wireless communications circuitry 96 may support short ranged remote wireless communications including a Bluetooth RF connection. Column 15, lines 16-63)

searching at the mobile wireless information apparatus wirelessly over said wireless communication channel for one or more wireless output devices available for wireless (i.e. Hand Computing Device 12 operates wirelessly to render and receive wireless digital content to the components of Figs. 1 & 2. Fig. 13 is a schematic diagram showing how a handheld computing device may establish a wireless communications link with a merchant. Column 12, line 56 thru Column 13 line 9 and Column 20, lines 57-67);

the searching over the wireless communication channel not related to searching over the Internet or via the Internet (i.e. Fig. 1, Communications Paths 56);

receiving at the mobile wireless information apparatus over the wireless communication channel a device dependent attribute that corresponds to each wireless output device found in the wireless search over the wireless communication channel (i.e. Hand Computing Device 12 operates wirelessly to render and receive wireless digital content to the components of Figs. 1 & 2. Column 12, line 56 thru Column 13 line 9)

and includes at least one of a name, a device identity, a device type, a device address, a security code, and a device profile corresponding to each wireless device (Fig. 13 i.e. Handheld computing device 12 may communicate with merchant 178 over a local RF wireless link to receive a directory from computer 184 may communicate to retrieve a directory, to retrieve product information from a remote database, to access a remote web site containing product information or personal information. Column 21, lines 1-24).

wherein the short range wireless connection being compatible with one within IEEE802.11 wireless standard or being one compatible with BluetoothTM standard (Fig. 4 i.e. Wireless communications circuitry 96 may support short ranged remote wireless communications including a Bluetooth RF connection. Column 15, lines 16-63)

conforming at the mobile wireless information apparatus at least part of the digital content into an output data (i.e. Hand Computing Device 12 operates wirelessly to render and receive wireless digital content to the components of Figs. 1 & 2. Column 16, lines 23-36 and Column 12, line 56 thru Column 13 line 9);

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the output data being related to the digital content that includes video content (i.e. Video files may be downloaded to handheld computing device from a video kiosk. Column 32, lines 61-67)

Treyz '835 does not expressly disclose the features of a wireless output device as expressed below.

Van Ryzin '961 discloses wherein the wireless output device being associated with a television (Fig. 2, A/V Devices 12, 14 or 16) and not associated with a printing device (Fig. 2 i.e. The A/V Devices 12, 14 or 16 may be a television and not a printing device as shown.)

and the wireless output device being a distinct device from the mobile wireless information apparatus (Fig. 2 i.e. Remote Control 20 and A/V Devices 12, 14 or 16 are separate and distinct devices as shown.)

selecting at the mobile wireless information apparatus a wireless output device associated with the television discovered in the search based at least in part on the received device dependent attributes received over the wireless communication channel from each of the wireless output devices (i.e. The user could browse a web page television guide of the Internet on the PC and then select shows to be recorded using the remote control 20. Column 5, lines 40-60).

the selected wireless output device being associated with the television and not associated with a printing device (Fig. 2 i.e. The A/V Devices 12, 14 or 16 may be a television and not a printing device as shown.)

establishing at the mobile wireless information apparatus a short range wireless connection between the mobile wireless information apparatus and the selected wireless output device that is associated with the television and not associated with a printing device (Fig. 2 i.e. 2-Way Wireless Communication between the A/V Devices 12, 14 or 16 and the Remote Control 20 as shown.)

the short range wireless connection not including an external print server being external to the mobile wireless information apparatus and the selected wireless output device (Fig. 2 i.e. The

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2-Way Wireless Communication between the A/V Devices 12, 14 or 16 and the Remote Control 20 as shown does not include an external print server.)

and the short range wireless connection not including the Internet in between the mobile wireless information apparatus and the selected wireless output device (Fig. 2 i.e. The 2-Way Wireless Communication between the A/V Devices 12, 14 or 16 and the Remote Control 20 as shown does not include the internet.)

and the output data including a format, protocol, or language that is acceptable for transferring to the selected wireless output device associated with the television for output (i.e. Software or firmware would be written for the remote control unit 20 and the A/V devices 12, 14, 16 to enable them to communicate in a bi-directional fashion, thereby allowing requests received from the audio/visual equipment to be carried out. Column 4, lines 3-17)

and transferring the output data over the short range wireless connection to the selected wireless output device associated with the television for output of the digital content that includes the video content (i.e. The user could browse a web page television guide of the Internet on the PC and then select shows to be recorded using the remote control 20. Column 5, lines 40-60).

the transferring of the output data over the short range wireless connection not including transferring the output data over the Internet or via the Internet (Fig. 2 i.e. The 2-Way Wireless Communication between the A/V Devices 12, 14 or 16 and the Remote Control 20 as shown does not include the internet.)

Treyz '835 and Van Ryzin '961 are combinable because they are from same field of endeavor of communication systems (Van Ryzin '961 at "Title").

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to modify the communication system as taught by Treyz '835 by adding the features of a wireless output device as taught by Van Ryzin '961. The motivation for doing so would have been because it is clear that there exists a need in the art to be able to have communications between a remote control unit and various equipment being controlled by the remote control unit.

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Therefore, it would have been obvious to combine Treyz '835 with Van Ryzin '961 to obtain the invention as specified in claim 29.

Treyz '835 does not expressly disclose conforming of the digital content into an output data includes an encryption operation.

Tari '491 discloses wherein the conforming of the digital content into an output data includes an encryption operation (Fig. 2, (a) Perform Registration Step and Step S1 in Fig. 3 i.e. Step S1 in Fig. 3 discloses wherein the terminal unit 5-1 requests from wireless server B3-2 a terminal registration approval and an IP address. In response, wireless server B3-2 issues registration approval and an IP address, thus enabling the terminal unit 5-1 to operate under the wireless server B3-2. Column 4, lines 4-14)

Treyz '835 and Tari '491 are combinable because they are from same field of endeavor of network systems (Tari '491 at Fig. 1).

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to modify the communication system as taught by Treyz '835 by adding conforming of the digital content into an output data includes an encryption operation as taught by Tari '491. The motivation for doing so would have been because it advantageous to provide a communication system and method that can continue to communicate without a delay. Therefore, it would have been obvious to combine Treyz '835 with Tari '491 to obtain the invention as specified in claim 29.

Regarding claim 30; Treyz '835 as modified does not expressly disclose selecting a wireless output device as disclosed below.

Tari '491 discloses selecting a wireless output device: obtaining a security key from the user; sending the security key over the wireless communication channel for authentication;

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receiving over the wireless communication channel at least an indication related to a successful security key authentication and utilizing the authenticated security key to establish restricted wireless access to the selected wireless output device (Fig. 2, (a) Perform Registration Step and Step S1 in Fig. 3 i.e. Step S1 in Fig. 3 discloses wherein the terminal unit 5-1 requests from wireless server B3-2 a terminal registration approval and an IP address. In response, wireless server B3-2 issues registration approval and an IP address, thus enabling the terminal unit 5-1 to operate under the wireless server B3-2. Column 4, lines 4-14)

Treyz '835 and Tari '491 are combinable because they are from same field of endeavor of network systems (Tari '491 at Fig. 1).

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to modify the communication system as taught by Treyz '835 by adding selecting a wireless output device as taught by Tari '491. The motivation for doing so would have been because it advantageous to selecting a wireless output device for secure transmission of private data. Therefore, it would have been obvious to combine Treyz '835 with Tari '491 to obtain the invention as specified in claim 29.

Regarding claim 31, 50 & 59; Claims 31, 50 & 59 contain substantially the same subject matter as independent claim 29. Therefore, claims 31, 50 & 59 are rejected on the same grounds as claim 29.

However, claim 31 discloses the restricted wireless transfer of digital content. Tari '491 at column 4, lines 4-14, Fig. 2, (a) Perform Registration Step and Step S1 in Fig. 3 discloses wherein the terminal unit 5-1 requests from wireless server B3-2 a terminal registration approval and an IP address. In response, wireless server B3-2 issues registration approval and an IP address, thus enabling the terminal unit 5-1 to operate under the wireless server B3-2.

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Furthermore, claim 50 also discloses a client application that enables user viewing or outputting of at least part of the digital audio or video content with the mobile wireless information apparatus, the client application operating at least partly in accordance to an object or a component model. Treyz 18 discloses at Fig. 4 a Display 80 wherein a user may view the digital content.

Regarding claims 33 & 55; Claims 33 & 55 contains substantially the same subject matter as claim 30. Therefore, claims 33 & 55 are rejected on the same grounds as claim 30.

Regarding claim 39; Van Ryzin as modified does not expressly disclose wherein the wireless output device includes an audio device.

Van Ryzin discloses wherein the wireless output device includes an audio device (Fig. 2, A/V Devices 12, 14 or 16).

Treyz '835 and Van Ryzin '961 are combinable because they are from same field of endeavor of communication systems (Van Ryzin '961 at "*Title*").

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to modify the communication system as taught by Treyz '835 by adding an audio device as taught by Van Ryzin '961. The motivation for doing so would have been because it is clear that there exists a need in the art to be able to have audio equipment to keep pace with the increasing changes in technology. Therefore, it would have been obvious to combine Treyz '835 with Van Ryzin '961 to obtain the invention as specified in claim 29.

Regarding claim 40; Treyz '835 discloses wherein the mobile wireless information apparatus includes desktop computer, a laptop computer, a networked computer, a palmtop computer, a hand-held computer, a personal digital assistant, an mobile phone, a smart phone, an

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Internet appliance or a Internet web pad, individually or in any combination (Fig. 1, Hand Computing Device 12).

Regarding claim 41; Treyz '835 discloses wherein the mobile wireless information apparatus further includes a client application with one or more functionalities that include one or more internet browsing, outputting content, content selection, content creation, and content editing, individually or in any combination (Fig. 2, Communications Network 32).

Regarding claim 42; Treyz '835 discloses wherein conforming at the mobile wireless information apparatus at least part of the digital content into an output data includes using at least in part the said device dependent attribute received over the wireless communication channel from the selected wireless output device (i.e. Hand Computing Device 12 operates wirelessly to render and receive wireless digital content to the components of Figs. 1 & 2. Column 16, lines 23-36 and Column 12, line 56 thru Column 13 line 9);

Regarding claim 43; Treyz '835 discloses wherein the conforming of the digital content further includes a compression and or a decompression operation i.e. Regardless of which type of wireless link is used to deliver video to handheld computing device 12, bandwidth may be conserved by using a digital compression scheme. Column 51, lines 12-17).

Regarding claim 44; Treyz '835 discloses wherein the device profile includes information related to at least one of a quality of service, a billing, a pricing, security, identification and compatibility associated with the wireless device (Fig. 10, Step 162 i.e. The transactions performed at step 162 may be placed under password control. Column 18, lines 41-58).

Regarding claim 45; Treyz '835 discloses discovering over the wireless communication channel one or more wireless output devices available for wireless connection (i.e. Hand Computing Device 12 operates wirelessly to render and receive wireless digital content to the components of Figs. 1 & 2. Fig. 13 is a

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schematic diagram showing how a handheld computing device may establish a wireless communications link with a merchant. Column 12, line 56 thru Column 13 line 9 and Column 20, lines 57-67).

Regarding claims 46 & 58; Claims 46 & 58 contains substantially the same subject matter as claim 42. Therefore, claims 46 & 58 are rejected on the same grounds as claim 42.

Regarding claim 47; Treyz '835 discloses wherein the wireless communication between the mobile wireless information apparatus and the output devices includes the mobile wireless information apparatus communicating with the output device via a wireless output controller associated with the wireless output device (Fig. 4, Microcontroller 66 A & B i.e. FIG. 4. Handheld computing device 12 may contain a processor circuitry 64 that is based on a microprocessor or microcontroller 66, a digital signal processor 68, and other processing and control circuitry 70. Column 15, lines 3-7).

Regarding claim 48; Treyz '835 discloses which obtaining over the wireless communication channel at least one attribute includes obtaining over the wireless communication channel at least one attribute from a wireless output controller associated with one or more wireless output devices (i.e. Hand Computing Device 12 operates wirelessly to render and receive wireless digital content to the components of Figs. 1 & 2 via microprocessor or microcontroller 66. Column 12, line 56 thru Column 13 line 9 and Column 15, lines 3-7).

Regarding claim 49; Claims 49 contains substantially the same subject matter as claim 44. Therefore, claims 49 is rejected on the same grounds as claim 44.

Regarding claim 51; Claims 51 contains substantially the same subject matter as claim 40. Therefore, claims 51 is rejected on the same grounds as claim 40.

Regarding claim 52; Claim 52 contains substantially the same subject matter as claim 41. Therefore, claim 52 is rejected on the same grounds as claim 41.

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Regarding claim 53; Treyz '835 discloses wherein the client application further includes a audio or video content selection, creation or editing applications for selecting, creating or editing of the audio content at the mobile wireless information apparatus (i.e. Video files may be downloaded to handheld computing device from a video kiosk. Column 3, lines 61-67)

Regarding claim 54; Treyz '835 discloses wherein the mobile wireless information apparatus further includes a memory component (Fig. 4, Storage 72) and a mobile wireless operating system (Fig. 4, Operating System 70) and the audio or video content is stored locally in the memory component of the mobile wireless information apparatuses, and the digital audio or video client application accessing the content locally for sending to the output device over the wireless communication channel (i.e. Video files may be downloaded to handheld computing device from a video kiosk. Column 32, lines 61-67)

Regarding claim 57; Claim 57 contains substantially the same subject matter as claim 43. Therefore, claim 57 is rejected on the same grounds as claim 43.

5. **Claims 29-31, 33, 40-55 & 57-59** are rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of Treyz '835, Van Ryzin '961 and Tari '491 as applied to claim 29, and further in view of Anderson et al. (US 20020087622 A1, hereinafter, Anderson '622).

Regarding claim 32; Treyz '835 as modified does not expressly disclose a security key as expressed below.

Anderson '622 discloses where the said security key comprises at least one of a user name, password, ID number, signatures, security keys (physical or digital), biometrics, fingerprints, and a voice (Fig. 2, (a) Perform Registration Step and Step S1 in Fig. 3 i.e. Step S1 in Fig. 3 discloses wherein the terminal unit 5-1 requests from wireless server B3-2 a terminal registration approval and an IP address. In response,

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wireless server B3-2 issues registration approval and an IP address, thus enabling the terminal unit 5-1 to operate under the wireless server B3-2. Column 4, lines 4-14).

Treyz '835 and Anderson '622 are combinable because they are from same field of endeavor of network systems (Anderson '622 at Fig. 1).

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to modify the communication system as taught by Treyz '835 by adding a security key as taught by Anderson '622. The motivation for doing so would have been because it advantageous to provide a more efficient wireless connection over a secure system. Therefore, it would have been obvious to combine Treyz '835 with Anderson '622 to obtain the invention as specified in claim 29.

Regarding claim 56; Anderson '622 discloses software for obtaining authentication information at the mobile wireless information apparatus for accessing the selected output wireless device, and software for sending at least part of the authentication information over the wireless communication channel for authenticating access to the select wireless output device (i.e. Upon establishing a connection, the camera sends the user's account ID and password to the gateway server and provides authentication. Page 1, paragraphs 0005-0006).

Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MARCUS T. RILEY whose telephone number is (571)270-1581. The examiner can normally be reached on Monday - Friday, 7:30-5:00, est.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David K. Moore can be reached on 571-272-7437. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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